NEWZEN CONSULTANTS BANGALORE

NEW TECHNOLOGIES TO INNOVATE

NC/QC/YD-W-1/2018-19/SH-PCC1 **Date: 18-03-2019**

1. TESTING OF COARSE AND FINE AGGREGATES:

Sub: Testing of Coarse and Fine aggregates to be used for bed concrete.

{Project*: Improvements to main roads and cross roads at 1st main Shivanahalli and surrounding areas in Kempegowda ward no-01 and Improvements to main roads and cross roads at 2nd main Shivanahalli and surrounding areas in Kempegowda ward no-01 (Package-01).}

Ref.: Material testing/PMC/18-19,

Report Required for: Assistant Executive Engineer,
Yelahanka Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. N. Jagadhish.

1. COARSE AGGRGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2007) % Passing	
	40 mm Sample	Single size	Graded
40mm	100.00	85-100	90 – 100
20mm	68.15	0 -20	30- 70
10mm	29.60	0 -5	10- 35
4.75mm	4.05	------	0- 5

2. FINE AGGREGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -III	
04.75	98.10	90-100	90-100	90-100	The Sample Conforms to Grading **Zone-II**
02.36	85.60	60-95	75-100	85-100	
01.18	63.15	30-70	55-90	75-100	
600.mic	54.90	15-34	35-59	60-79	
300.mic	24.05	5-20	8-30	12-40	
150.mic	7.55	0-10	0-10	0-10	

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Proprietor

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NC/QC/YD-W-1/2018-19/SH-C2 **Date: 22-03-2019**

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Improvements to main roads and cross roads at 1st main Shivanahalli and surrounding areas in Kempegowda ward no-01 and Improvements to main roads and cross roads at 2nd main Shivanahalli and surrounding areas in Kempegowda ward no-01 (Package-01).}
Ref.: Material testing/PMC/18-19,
Report Required for: Assistant Executive Engineer,
Yelahanka Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. N. Jagadhish.

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PHYSICAL TESTS ON CEMENT

Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	**155 min**	Shall not be less than 30 min
2	Final setting time	**270 min**	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	**1.96 %**	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	**2.13 mm**	Shall not be more than 10 mm
5	Compressive strength a) 3 days (average of three results)	**28.85 N/Sq mm**	Shall not be less than 27 N/Sqmm

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NC/QC/YD-W-1/2018-19/SH-CB1A

Date: 29-04-2019

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).
{Project*: Improvements to main roads and cross roads at 1st main Shivanahalli and surrounding areas in Kempegowda ward no-01 and Improvements to main roads and cross roads at 2nd main Shivanahalli and surrounding areas in Kempegowda ward no-01 (Package-01).}
Ref.: Material testing/PMC/18-19.
Report Required for: Assistant Executive Engineer,
Yelahanka Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. N. Jagadhish.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm
Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	01-04-19	29-04-19	28	22500	515	22.89	**22.59**
	002	‘’	“	‘’	“	510	22.67	
	003	‘’	“	‘’	“	500	22.22	

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NC/QC/YD-W-1/2018-19/SH-C8 Date: 20-04-2019

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Improvements to main roads and cross roads at 1st main Shivanahalli and surrounding areas in Kempegowda ward no-01 and Improvements to main roads and cross roads at 2nd main Shivanahalli and surrounding areas in Kempegowda ward no-01 (Package-01).}
Ref.: Material testing/PMC/18-19.
Report Required for: Assistant Executive Engineer,
Yelahanka Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. N. Jagadhish.

PHYSICAL TESTS ON CEMENT

Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	**168 min**	Shall not be less than 30 min
2	Final setting time	**27min**	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	**1.8 %**	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	**2.06 mm**	Shall not be more than 10 mm
5	Compressive strength f) 3 days (average of three results)	**28.78N/Sq mm**	Shall not be less than 27 N/Sqmm

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